

**NASA Space Shuttle Program (SSP)
Mission Management Team (MMT) STS-114
Minutes of Meeting
July 28, 2005**

The STS-114 Flight Day 3 (FD3) MMT meeting, chaired by Deputy Manager, SSP, JSC-MA/Wayne Hale, was held July 28, 2005 at 1:00 p.m. Central Time (CT), Johnson Space Center (JSC), Building 30, Room 118. Member organizations supported at JSC and remote sites by video teleconference. Roster sheets for those that participated in this meeting are available. Following are highlights of the issues that were discussed.

A. Introduction – MMT Chairman

Among his introductory remarks, Mr. Hale urged team members to communicate openly, sharing data, and to anticipate more MMT focus in upcoming days on the overall STS-114 mission and less on the ET debris issue.

B. Flight Status – Mission Operations Directorate (MOD) Failure Summary

JSC-DA/Phil Engelauf summarized FD3 mission events, most notably International Space Station (ISS) rendezvous and docking at 1/20:38 Mission Elapsed Time (MET). All maneuvers were executed nominally; however the Capture Latch 1 manual release partially released during ring retract, with no impact to future operations. Three other previously cited no-impact failures continue to be worked by the Flight Control Team (FCT):

- Auxillary Power Unit (APU) 2 Momentary Loss of Instrumentation Power Supply C – No impact if no recurrence
- S-Band Phased Modulator (PM) Lower-Left Antenna – Now operating nominally
- CWC Leaks in 2 of 2 Bags (white plastic drain fittings) – Bags temporarily stowed on the ISS.

Mr. Engelauf reiterated that none of these issues are real operational impacts.

Mr. Engelauf concluded that the STS-114 mission continues to proceed per the nominal timeline. A decision is to be made by 1430 CT today on proceeding with focused inspections for FD4, using the Orbiter Boom Sensor System (OBSS), which would result in a change to the crew timeline.

C. Mission Integration Status

JSC-MO/Robert Galvez, STS-114 Flight Manager, in relating consumables transfer activity, noted that oxygen transfer may compete against the potential to acquire an extra mission day. Additional time could be utilized for IVA tasks and to optimize MPLM stowage capability. The FCT is considering an orbiter power down in order to acquire an additional day. The MMT concurred in this approach. Action 114-MMT-005 was

assigned for JSC MOD to review and present power down options for a potential additional flight day at tomorrow's (July 29) meeting.

D. System Engineering and Integration (SE&I)

JSC-MS/John Muratore presented the SE&I Integrated Anomalies list, located on the MMT website at:

http://sspweb.jsc.nasa.gov/webdata/mmtmeeting/flt/114/050728.1300_D3/SEI.pdf

E. Debris Data Collection and Processing

JSC-MS/John Muratore noted the updates since FD2 MMT:

- 7 and 8 seconds: Tyvek covers appear to impact windows 3 and 4
- 7 seconds: Tyvek cover appears to impact right OMS pod
- 155 seconds: Possible impact event in digital ET LO2 video vicinity of reinforced carbon-carbon (RCC) starboard panels 9, 10, and 11.

The presenter noted that debris events past 135 seconds are outside of the aerodynamic sensitive transport time (ASTT) that normally defines the threat region for the vehicle. He reviewed various images and video of debris and noted that further work was anticipated.

F. Leading Edge Subsystem (LESS) Summary

Boeing-KSC/Mike Gordon reported the LESS/RCC PRT (Problem Resolution Team) is currently tracking three regions of interest on the left wing. The Wing Leading Edge Impact Detection System (WLEIDS) has identified 11 defects, with impact classifications as probable (2), questionable (2), and no impact (7). No gross anomalies are apparent and no right wing LESS suspicions currently exist. Event corroboration will be completed today and coordinated with SE&I.

G. Thermal Protection System (TPS) Damage Summary

Boeing-KSC/Dan Bell, in a preliminary assessment, cited three occurrences: (1) a protruding gap filler in tile below the orbiter nose; (2) tile damage to the nose gear landing door (NGLD); and (3) a damaged blanket. JSC-MV/Steve Poulos, Orbiter Project Manager indicated the LESS and TPS reports were "just coming in" and a more complete assessment would be forthcoming.

H. STS-114 Quick Look Ascent Summary

USA/Scott Nagle reported nominal findings in an L+2 day Ascent Performance Postflight Summary:

- Natural Environments – Overall winds and atmosphere were benign for July.
- DOLILU (Day of Launch I-load Update) – All I-load evaluations were GO and trajectories were within Q-planes at all Mach numbers.
- Ascent Trajectory & Integrated System Performance -- Trajectory event

sequence occurrences and flight dynamic performance were as expected.

I. Management Decisions Summary

No management decisions were made at today's MMT. Mr. Hale polled the MMT and received concurrence that FD4 should proceed as planned with detailed inspections.

J. Conclusion

Mr. Hale indicated the next MMT is scheduled for 1:00 p.m. CDT, Friday, July 29, 2005.

Detailed information on all assigned actions for this meeting can be found on the MMT Action log, located on the MMT web site at:
http://sspweb.jsc.nasa.gov/webdata/mmtmeeting/flt/114/050728.1300_D3/actionlog.pdf

The MMT web site is available at <http://sspweb.jsc.nasa.gov/mmt/>.

The meeting adjourned at 3:14 p.m. CT.

MMT: July 28, 2005

Minutes Prepared By:

<u>Lorin O. Lovfald</u>	<u>July 28, 2005</u>
Minutes Writer	Date

Approvals:

<u>Eddie King</u>	<u>July 28, 2005</u>
MMT Secretary	Date

<u>J. J. Conwell</u>	<u>July 28, 2005</u>
Customer Support Room (CSR) Duty Officer	Date

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MEETING TITLE: STS-114 MMT Flight Day 03

LOCATION:		DATE: July 28, 2005
NAME	ORGANIZATION/MAIL CODE	TELEPHONE
Red Wallace	MNS	33804
Nick Hammons	USA PE	281-212-6184
WAYNE HOLT	NASA /MA	30692
Joe Gervanel	Boeing	281-226-5502
Craig Lowe	USA	281-212-6150
Bill Gerstenmaier	NASA OA	
Bill Parsons	NASA MA	
Steve Shier	NASA DA8	X3-8038
Kirby Shindler	JAXA	
Bob Lang	USA/USN-150C	281-212-6184
Henry Kinkel	Boeing PI	281-226-5513
Thomas Arnold	USA Booster	281-483-7431
B Meredith	MA	31454
Terry Dawson	Boeing Safety	281-226-5934
John Muratore	NASA MS	281-483-4867
B. Moody	W	45783
M. Souza	PHOTO	
MARTIN GARCIA	USA PCE	212-6066
Daryle Iunker	USA -FO	202-4371
Lynn Cline	NASA HQ /SOMD	202-358-1200
James M. Duncan	SD	32432
John	SD	36063
B G Swan	EA	32528
Carol Evans	EAY	37055
DAVE HERBER	NASA/HQ	202-441-7619
TOM RAINES	NC2 /JSC	3047
S. Altemus	EA	3-1386
Joe Carr	RAA/2	25365
P To Hon	NY	48307

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LOCATION:		DATE: July 28, 2005
NAME	ORGANIZATION/MAIL CODE	TELEPHONE
Doug White	USA OCB USH601M	2812822879
Mike Boggs	NASA/D032	
Vanessa Ellerbe	NASA/MO	37343
Y. Marshall	NASA/NA	32422
K. Rominger	NASA JSC CB	40878
G. Gaffka	NASA/JSC/NA	3-7732
J. McGRAND	NASA HQ	2023583892
ROBERT GALVEZ	MO3	847096
William R. Raddy	NASA MO	2023582015
Phil Engelant	DAS	34416
Steve Green	EA	47149
Paul Shuck	EA	31458
Vuong Pham	NA	38872
Stuart Gaylor	MO3	31144
REYNALDO GOMEZ	EO3	36108
Z. Lu	MX	4075
Brewster Shaw	USA	281-212-6120
Stokes McMillan	MS3	35913
Gopi Tennison	JAXA	281-280-0222
Kirk Shiner	DA	47402
Kelly Beck	DAS	31967
M. Hu Canbin	MC	
Jill Lin	MU	32460
Dan Bell	Boeing	31630
Carl Martin	JSC/NASA/MS3	31559
Guy Christopher Coppel	AD1	39151
Victor Chang	NASA NCI	31085
M. FOREMAN	NASA JSC CB	42503
Brian Butler	USA CSS	2426206

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DATE: July 28, 2005

NAME	ORGANIZATION/MAIL CODE	TELEPHONE
KYLE HERRING	AP	35111
Marie Carter	USA	
Mary Anne Plaza	NASA/MO3	41040
Lorann Shriver	USA/SSP	281-212-6192
Scott Naylor	USA/SE&I	281-212-6792
Jeff Dutton	XA	32841
Reggie McIlott	RM1	985-373-2190
Bill Reeves	USA P1	281-212-6240
Steve Oswain	Baeing	226-5508
CRAIG WOKEY	USA	216-6236
Steve Pavlos	MV	33307
Mike Rynt	PA	33321
Lorann Houffard	USA	281-280-6812
Ellen Ochoa	CA	3-4995
LEROY CAIN	NASA/JSC/DA8/FLIGHT	3-0705
Jeffery R Davis	NASA SLSD-SA	30393
John Snyder	MSOC	853-2350
John McKinley	MOD	30792
N. DECASTRO	US AIRANCE	2-6262
Kim Doerky	MS	47692
Eriz van der Wal	OT/ETH	47297
Celia Lang	LM / CMC	853-3600
Carl Fischer	SA JSC	33378
Bob Barnes	LARC NASA	257 8612252
STEVE RICKMAN	NASA JSC ES3	38867
Tobbie Gest	USA Flt Ops	4-0239
Chris Loran	USA MOD /braker	38546
Scott Armstrong	USA FO	282-3005
Pat Goodman	NASA/OTG	202 388-2555

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MEETING TITLE: STS-114 MMT Flight Day 03

LOCATION:

DATE: July 28, 2005

NAME

ORGANIZATION/MAIL CODE

TELEPHONE

Jenny Ross

CAH

40805

Kevin Mellett

NC

4-6652

Ronald Stuchman

UCA - MG

3-1318

Milt Hefner

NASA MOD

Fax

MEETING TITLE: STS-114 MMT Flight Day 03

DATE: July 28, 2005

TELEPHONE

202.358.0571

202.358.2208

202-358-4414

702-358-1240

WZ-358-1703

202-358-0603

202-358-1938

202 388 0865

358-1608

350-2017

X 2281

X1507

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MEETING TITLE: STS-114 MMT Flight Day 03

LOCATION: KSC-HQS

DATE: July 28, 2005

NAME	ORGANIZATION/MAIL CODE	TELEPHONE
MIKE WYCKOFF	WSA / WSK-841	867-7907
JOHN CABERER	NASA JSC/MG	33191
JOHN COWART	NASA JSCRO	1-3042
MARK NAPP	EO USA	1-3882
JEFF TRAYLOR	BOEING CAPPB	7-5393
Bob Page	NASA MK-SIO	7-8516
Randy Wade	MK-SIO	1-9312
TIM SPALINGER	ASC / KSC SAT	7-8252
Amy HowsGithridc	MA-SIO	1-3924
Carol Scott	Mk-SIO	1-3970
Michael Wetmore	NASA / KSC / PH	321 867 4343

1-400 ¥

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LOCATION: KSC - HQs

DATE: July 28, 2005

NAME

ORGANIZATION/MAIL CODE

TELEPHONE

DENNY KROSS

KSC - MK

7-3282

Huan DeLaRosa

KSC - LEA

7-2628

MIKE KOSTELNIK

HQ - 0600

202 558 4424

GREG C JOHNSON

KSC - MK

7-8234

